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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/550,596	04/17/2000	Mauro Bettiati	10138-0002-2	1077		
75	590 08/30/2002					
Oblon Spivak	Mcclelland Maier and	EXAM	EXAMINER			
	Davis Highway	RODRIGUEZ, ARMANDO				
Arlington, VA	22202		ART UNIT	PAPER NUMBER		
			2828			
			DATE MAILED: 08/30/2002	DATE MAIL ED: 08/30/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
•		09/550,596		BETTIATI ET AL.	111			
· Office Action Summary		Examiner		Art Unit	- 100			
		Armando R	odriguez	2828				
	The MAILING DATE of this c mmunication app	pears on the c	over sheet with	the correspondence addr	ess			
Period fo	• •	V 10 0ET TO	EVELDE A MON	ITU(O) FDOM				
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event ly within the statuto will apply and will e e, cause the applica	, however, may a reply ry minimum of thirty (3 expire SIX (6) MONTHS ation to become ABAN	be timely filed 0) days will be considered timely. 5 from the mailing date of this common to the common term of the time.	munication.			
1)	Responsive to communication(s) filed on							
2a)□	This action is FINAL . 2b)⊠ Th	nis action is n	on-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
· ·	on of Claims							
•	Claim(s) 7-23 is/are pending in the application		.:					
	4a) Of the above claim(s) is/are withdra	wn from cons	sideration.	0				
· · · · ·	Claim(s) is/are allowed.			Paul Is	ò			
	Claim(s) <u>7-23</u> is/are rejected.			PAUL IP				
	Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	or election rec	wirement	SUPERVISORY PATENT EX				
-	ion Papers	or election rec	full ement.	TECHNOLOGY CENTER	2800			
· · ·	The specification is objected to by the Examine	er.						
•	The drawing(s) filed on is/are: a)☐ acce		bjected to by the	Examiner.				
	Applicant may not request that any objection to th	ne drawing(s) b	e held in abeyand	e. See 37 CFR 1.85(a).				
11) 🔲	The proposed drawing correction filed on	_ is: a) <u></u> app	proved b) disa	approved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority (under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	☐ All b)☐ Some * c)☐ None of:				·			
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
* 5	3. Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	ureau (PCT R	tule 17.2(a)).		tage			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen		. ,		•				
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 5	;		mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-17,20,22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doussiere et al (PN 5,717,711).

Figure 1 illustrates a laser cavity defined by facets (F1,F2) with an active medium (CA) of InGaAs, an optical fiber (FC) with a Bragg grating (BR) having a coefficient reflectivity of .10 and facet (f1) having a negligible coefficient reflectivity when compared to the Bragg grating.

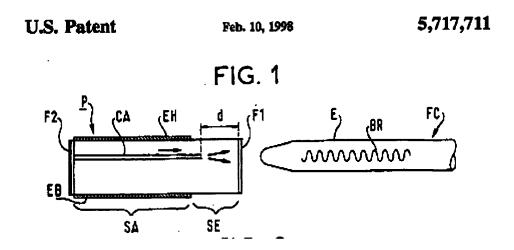
Doussierre et al does not disclose the ranges of the wavelengths.

However, similar structural arrangements having similar coefficient reflectivity between the facet and the Bragg grating would involve only routine skill in the art to obtain a preferred working range for the wavelength at ambient temperature.

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide the exit facet (F1) with a negligible coefficient reflectivity when compared with the Bragg grating because it would avoid degradation of the exit facet.

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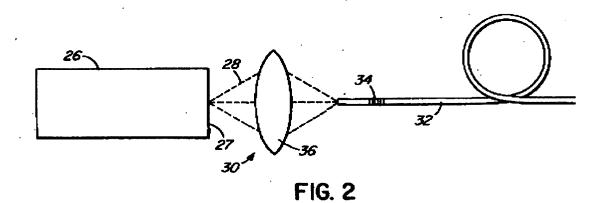


Claims 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable.

The use of quantum wells in laser system is notoriously well known in the art.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ventrudo et al (PN 5,485,481).

Coupling of laser cavity with optical fiber via lenses is well in the art, as shown in figure 2.



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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Armando Rodriguez whose telephone number is (703) 308-6218. The examiner can normally be reached on 10-hour day / M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

4881.

Armando Rodriguez

Examiner

Art Unit 2828

AR/PI

August 26, 2002

Paul lp

Supervisor

Art Unit 2828